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PROJECT BOOKLETMAT1038 Applied Mathematics 10
Module 4**FOR STUDENT USE ONLY**

Date Assignment Submitted:

(If label is missing or incorrect)

Student File Number:

Time Spent on Assignment:

Module Number: _____

FOR OFFICE USE ONLY

Assigned

Teacher: _____

Assignment

Grading: _____

Graded by: _____

Date Assignment Received:

**Student's Questions
and Comments**

Apply Module Label Here

Name

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*Please verify that preprinted label is for
correct course and module.***Teacher's Comments**_____
Teacher

INSTRUCTIONS FOR SUBMITTING THIS DISTANCE LEARNING PROJECT BOOKLET

When you are registered for certain distance learning courses, you are expected to submit completed projects for correction. Try to submit each project as soon as you complete it. Do not submit more than one Project Booklet in one subject at the same time. Before submitting your Project Booklet, please check the following:

- Is the project completed? If not, explain why.
- Has your work been reread to ensure accuracy in spelling and details?
- Is the booklet cover filled out and the correct module label attached?

MAILING

1. Postage Regulations

Do **not** enclose letters with your project or Project Booklets.

Send all letters in a separate envelope.

2. Postage Rates

Put your project or Project Booklet in an envelope and take it to the post office and have it weighed. Attach sufficient postage and seal the envelope. Project Booklets will travel faster if sufficient postage is used and if they are in large envelopes that do not exceed two centimetres in thickness.

FAXING

1. Project Booklets may be faxed to the school with which you are registered. Contact your teacher for the appropriate fax number.
2. All faxing costs are the responsibility of the sender.

E-MAILING

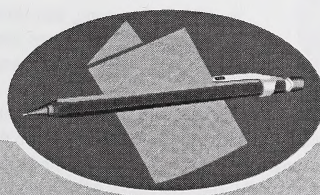
It may be possible to e-mail your completed projects to the school with which you are registered. Contact your teacher for the appropriate e-mail address.

Applied Mathematics 10

Module 4

Line Segments

PROJECT BOOKLET



**Learning
Technologies
Branch**

Alberta
LEARNING

FOR TEACHER'S USE ONLY

Summary

Total Possible Marks	Your Mark
50	

Teacher's Comments

Applied Mathematics 10
Module 4: Line Segments
Project Booklet
Learning Technologies Branch
ISBN 0-7741-2168-8

This document is intended for	
Students	✓
Teachers	✓
Administrators	
Home Instructors	
General Public	
Other	



You may find the following Internet sites useful:

- Alberta Learning, <http://www.learning.gov.ab.ca>
- Learning Technologies Branch, <http://www.learning.gov.ab.ca/lrb>
- Learning Resources Centre, <http://www.lrc.learning.gov.ab.ca>

The use of the Internet is optional. Exploring the electronic information superhighway can be educational and entertaining. However, be aware that these computer networks are not censored. Students may unintentionally or purposely find articles on the Internet that may be offensive or inappropriate. As well, the sources of information are not always cited and the content may not be accurate. Therefore, students may wish to confirm facts with a second source.

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PROJECT BOOKLET

APPLIED MATHEMATICS 10 – MODULE 4: LINE SEGMENTS

Read all parts of this project carefully and record your answers in the appropriate place. Work slowly and carefully. If you are having difficulties, go back and review the appropriate activity in the Student Module Booklet.

Be sure to complete all parts of the project and proofread your responses before submitting this project to your teacher. If you require more room for any response, use your own paper and attach it securely to this booklet.

Your mark on this module will be determined by how well you do on the module project in this Project Booklet and the module assignment in the Assignment Booklet.

The value of each part of the module project is stated in the left margin of this booklet. The total value of the module project is 50 marks.

50

Module Project: Designing a Water Ride

Your project for Module 4 is Designing a Water Ride. This project includes three phases. In phase 1, you research water rides, complete an investigation on water rides, and collect data from the investigation. In phase 2, you design your own water ride, describe the design, and make a three-dimensional sketch of your design. In phase 3, you use graph paper to make a scale drawing of the side view (elevation profile) of your design, and you indicate the slope and the coordinates of the endpoints of each section of your ride.

6

1. a. In the Student Module Booklet, you were asked to complete the investigation on pages 230 and 231 of the textbook. Use the data that you collected to complete the following table.

Distance Marble Travels Downhill	Slope of Downhill Section	Slope of Uphill Section	Distance Marble Travels Uphill			
			Trial 1	Trial 2	Trial 3	Average

4

- b. Based upon your investigation, explain what you discovered about making a ride more thrilling.

4

2. a. Describe the water ride you designed. **Note:** The ride should have three different thrill levels.

This image shows a single sheet of white paper with horizontal blue or grey ruling lines. The lines are evenly spaced and run across the width of the page. There are approximately 20 lines visible. The paper has a slightly textured appearance and some very faint, illegible markings near the top edge, possibly from a previous page or scanning artifacts.

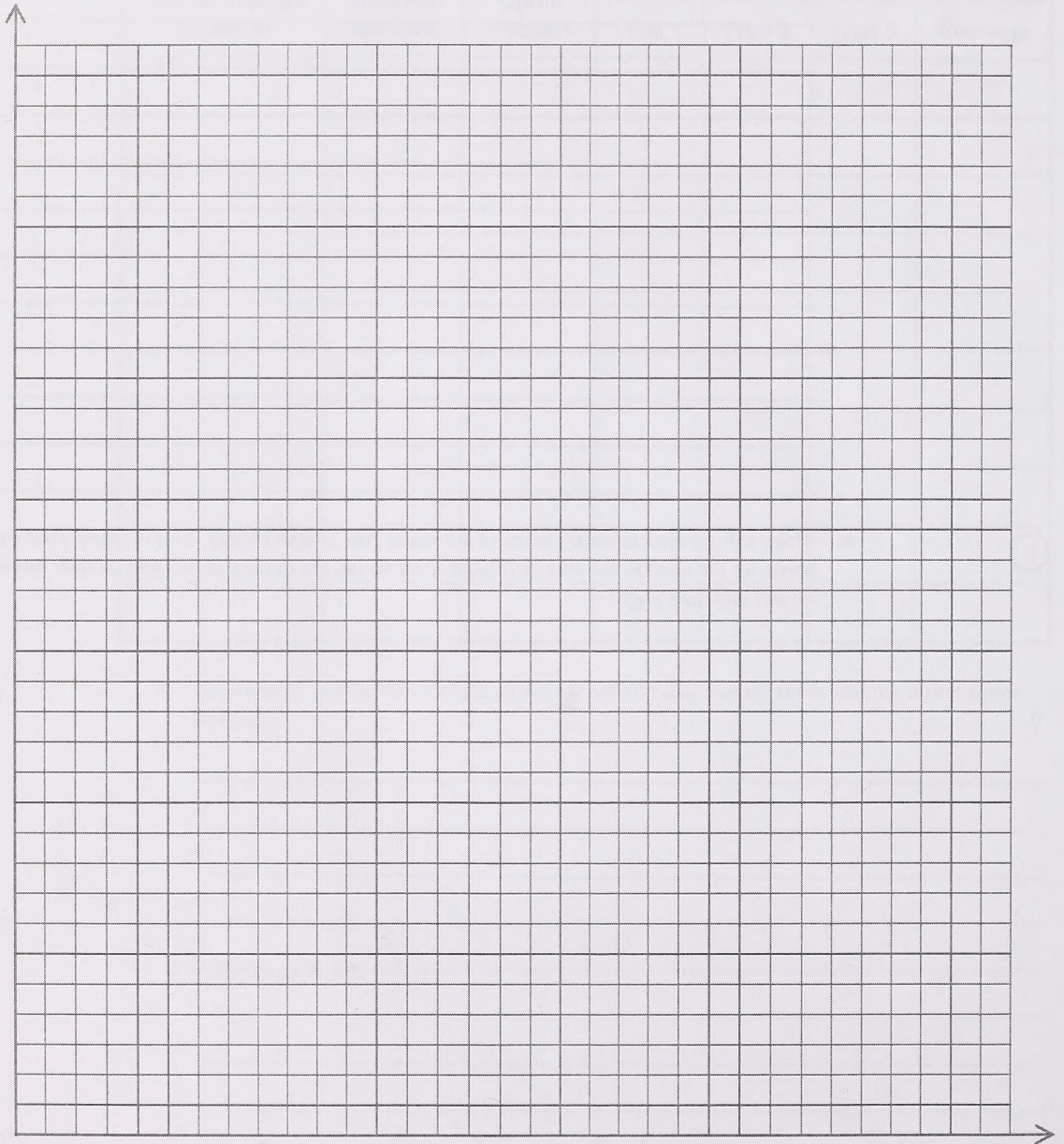
6

- b.** Make a three-dimensional sketch of the water ride you designed. You may use your own paper for the sketch. Be sure to include your name, the course name, and module number on any attached pages.

3. On the grids provided, make a scale drawing of each of the thrill levels on the water ride you designed. Include the coordinates of the endpoints of each section of the ride and the slope of each section of the ride. Show your calculations.

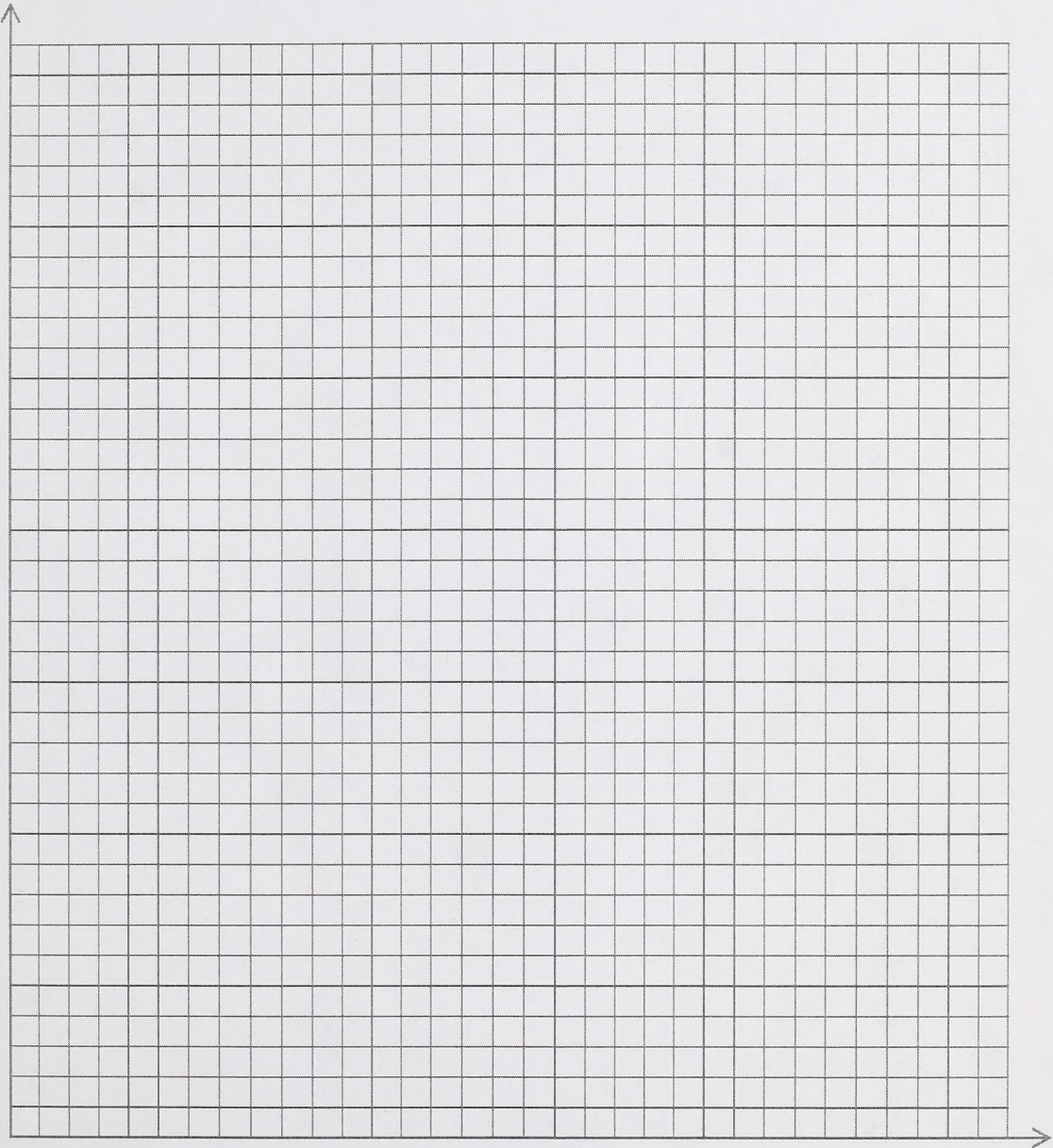
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Thrill Level 1



10

Thrill Level 2



10

Thrill Level 3